



**DEPARTMENT OF THE ARMY**  
**ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT**  
**600 ARMY PENTAGON**  
**WASHINGTON DC 20310-0600**



REPLY TO  
ATTENTION OF

DAIM-ED

09 FEB 1999

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Updated Minimum Automation Requirements to Support Environmental Security Functions and Status of DESCIM Systems

1. On 6 Aug 97, this office disseminated initial guidance (see enclosure 1) on required automation hardware that Major Army Commands (MACOMs) and installations should have to support environmental automated information systems (AIS). This memorandum updates that guidance based on the evolution of Defense Environmental Security Corporate Information Management (DESCIM) office development efforts, as well as availability of better hardware at lower costs.

2. Updated information for each DESCIM suite of systems follows:

a. The Environmental Security Corporate Reporting System (ESCRS) is an integrated set of environmental reporting modules facilitating the collection, monitoring, management, and dissemination of environmental data at the user, installation, and service levels. The Army currently uses three of the four existing ESCRS modules: Defense Environmental Security Restoration Tracking System (DSERTS), version 4.0, fielded March 1998; Environmental Program Requirements Module (EPRM), version 2.2, fielded September 1998; and the Environmental Quality Reporting (EQR) System: version 2.1, fielded November 1998. A fifth application, Corporate Reporting Module (CRM), is currently projected for fielding February 2000. All ESCRS modules use a common standardized database. An updated matrix of installation and MACOM AIS needs for ESCRS is included at enclosure 2. Both the EQR and (DSERTS modules are currently available as web-based systems. The Army Environmental Center (AEC) maintains the Army's web server used for this purpose. The EPRM could be available as a web-based system as early as August 1999.

b. Environmental Inventory Management (EIM). The Hazardous Substance Management System (HSMS) continues to be planned as the "backbone" for the EIM suite. HSMS Version 2.3 should be released in FY99, incorporating significant functionality enhancement, to include the ability to interface with key Army and DOD logistics standard systems. While further development of EIM modules is planned/ongoing, complete release of the EIM suite is not envisioned in FY99. HSMS fielding continues as a primarily centrally managed effort. MACOMs desiring to accelerate HSMS fielding to their installations outside the approved Installation Sequence List should adhere to the updated HSMS client/server hardware configuration (see enclosure 2), which is maintained by the Project Office, HSMS under the PM, Tactical Management Systems (TACMIS).

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c. Information Exchange and Technology Transfer functions continues to be accomplished primarily through the Defense Environmental Network Information Exchange (DENIX) system. DENIX capabilities have been enhanced and expanded in the past year. Army personnel working in environmental security and related functions should register and use DENIX regularly. This has the same system and web access requirements as the updated ESCRS requirement discussed above.

d. Cleanup Technical. Due to funding constraints, DESCIM's FY99 work on this system has been suspended. In the interim, the AEC is in the process of developing a web-based system that will reside on the AEC central server. AIS requirements remain essentially be the same as the ESCRS requirement, with the potential addition of GIS equipment/software that has yet to be fully identified.

e. DESCIM development efforts in the Explosive Safety functional area were put on hold in FY98 but are now continuing. For Explosive Safety functions, the Defense Explosive Safety Management Suite (DESMS) of applications is being developed to assist unit, intermediate command, and service level personnel in managing Explosive Safety programs. The Army ultimately envisions use of all of the five applications in the DESMS: Explosive Safety Policy Module, under development as a Web enabled application linked to DENIX, provides access to policies, directives, and reports; Explosive Safety Site Planning Module prepares explosive site plan package including site map and hazard analysis, is scheduled for fielding starting June 1999; Explosive Safety Mishap Analysis Module, already operational, provides access to DOD wide mishap data, facilities reporting, and helps identify unsafe practices; Explosive Safety Explosion Effects Module assists the explosive safety community in performing what-if analysis and predicts physical effects, is projected for completion in FY00; and the Explosive Safety Unexploded Ammunition and Explosives Module helps commanders to determine military training risks and land uses. The primary requirement is a Windows 95 or NT machine. The basic hardware requirements and reporting software are the same as those discussed for the ESCRS system.

3. In summary, the updated AIS requirements discussed in enclosure 2 should suffice for any current and planned versions of the DESCIM modules. Other critical requirements are the need for web access and the need to convert basic operating system software to Windows 95/98 or Windows NT. At the installation level, all actions necessary to address these AIS requirements should be closely coordinated between appropriate environment, safety, health and information management offices.

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4. Policy questions can be addressed to the Office, Director of Environmental Programs POC, Mr. George Carlisle, Commercial (703) 693-055 1 or DSN 223-055 1. For technical assistance the USAEC POC is Ms. Barbara Schmidt, at Commercial (410) 436-1656, or DSN 584-1656, and the PO HSMS POC is Mr. Bill Eggers, (703) 806-0587.

FOR THE ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT:

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**DEPARTMENT OF THE ARMY**  
**ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT**  
**600 ARMY PENTAGON**  
**WASHINGTON DC 20310-0600**



REPLY TO  
ATTENTION OF

DAIM-ED-P2

06 AUG 1997

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Minimum Automation Requirements to Support Environmental Management and Related Functions

1. Data management and reporting systems are continually evolving to facilitate and enhance Army environmental management processes. This memorandum discusses the near term automated information systems (AIS) environment and provides guidance on required automation hardware that Major Army Commands (MACOMs) and installations should have to support environmental AIS.

2. The Defense Environmental Security Corporate Information Management (DESCIM) office is developing several suites of software to satisfy DOD'S ever increasing environmental security management requirements. It is essential that MACOMs and installation environmental staff have the automation technology needed to accomplish their mission and to run current/future DESCIM software.

3. The main system that the environmental professional will need to be concerned with is the Reporting System (ESCRS). Environmental Security Corporate Reporting System (ESCRS).

a. This system will provide the principle mechanisms for upward environmental reporting within the Army. ESCRS will encompass the Environmental Quality Report (EQR) (formerly the Army Compliance Tracking System (ACTS)), Environmental Program Requirements (EPR), and Defense Site Environmental Tracking System (DSERTS) data. For reporting data, organizations and installations will connect to World Wide Web (WWW) sites on the Internet, primarily a central host WWW server being implemented at AEC.

b. ESCRS will initially be available as a replacement for ACTS and do all of the EQR data by October 1997. EPR Windows-based software was fielded in July 1997. and the EPR database is now part of the master ESCRS database. DSERTS is scheduled to be implemented in 1998. Installation and MACOM AIS needs for ESCRS are listed at enclosure 1.

4. The Environmental Inventory Management (EIM) suite is a Set of environmental security management modules for use at

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installation level. Specifically, EIM will consist of six major modules functionally defined as Hazardous Substance Management, Air Quality Management, Water Quality Management, Tank Management, Toxic, and Pest Management.

a. The EIM will interface with other AIS such as the Environmental Occupational Health and Safety systems and standard supply systems. Ultimately, the Hazardous Substance Management module of EIM will exchange routine logistics data within and among standard supply systems in the Military Services and Defense agencies, and will use standardized data elements to support data sharing with other EIM modules and with external AIS. The EIM is scheduled for release in the Fall of 1998.

b. The Hazardous Substance Management System (HSMS) is the "backbone" of the EIM. HSMS fielding is being planned primarily as a centrally managed effort according to an approved Installation Sequence List (ISL). Centrally managed fielding provides hardware support comprised of NT servers and NT client computers with minimum Pentium processors. MACOMs desiring to accelerate HSMS fielding to their installations outside the ISL should adhere to the recommended HSMS client/server hardware configuration, which is maintained by the Project Manager, Sustaining Base Automation (PM SBA) and shown at enclosure 2. MACOMs planning to procure office automation equipment which may be used for HSMS must coordinate with PM SBA to review their specifications prior to procuring this equipment.

5. Technology Transfer will effectively be accomplished by access to the Defense Site Environmental Network Information Exchange (DENIX) system. This has the same minimum/preferred and WWW access requirements as the ESCRS requirement discussed above. DENIX is currently available on the WWW and offers access to DOD wide calendar of events and exchange of information within the environmental community. Environmental professionals should have access to the DENIX on the WWW to enable them to be as efficient and effective as possible.

6. Cleanup Technical. This system will again require a central server at AEC to operate. The field will primarily be Rpm's out in the field and contractors doing the analysis of the cleanup data. The computer requirements will essentially be the same as above the only addition might be a need for GIS equipment and or software that has not been fully identified yet but would be available on the TRI service CADD/GIS contract.

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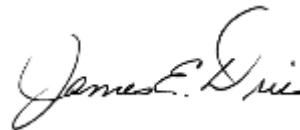
SUBJECT: Minimum Automation Requirements to Support  
Environmental Management and Related Functions

7. Explosive Safety affects the Army environmental community the most in the munitions range rule area via the DESCIM Unexploded Ordnance (UXM) module. The UXM module to support range rule requirements is being proposed for fielding in Fall 1997. The primary requirement is a Windows 95 or NT machine. The basic hardware requirements and reporting software are the same as those discussed for the ESCRS system, but there may be an additional requirement for data base software (i.e., Oracle). Future versions may include CADD/GIS requirements to accommodate the Tri-Service Spatial Data Standard, which would require minimum 32MB RAM.

8. In summary, the computer hardware requirements discussed in paragraph 3 above should suffice for any of the DESCIM modules except EIM and Cleanup Technical, which will have a more technical baseline of users the general environmental professional. The most pressing requirements are the need for WWW access and the need to convert basic operating system software from Windows 3.1 to Windows 95 or NT.

9. Policy questions can be addressed to the Office, Director of Environmental Programs POC, Mr. George Carlisle, Commercial (703) 693-0551 or DSN 223-0551. For technical assistance the USAEC POC is Ms. Barbara Schmidt, at Commercial 1410)671-1656, or DSN 584-1656, and the PM SBA POC is Mr. Bill Eggers, (703)1806-4223)..

FOR THE ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT:



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as

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### ESCRS Hardware/Software Configuration

	Minimum	Standard
Computer	<ul style="list-style-type: none"> <li>• Pentium 100 processor</li> <li>• 16 MB memory</li> <li>• 1 gigabyte hard disk</li> </ul>	<ul style="list-style-type: none"> <li>• Pentium 300 or better</li> <li>• 32 MB memory or better</li> <li>• 4 GB hard disk or better</li> <li>• 24X CD ROM drive</li> </ul>
Software	<ul style="list-style-type: none"> <li>• Netscape Navigator or Microsoft Internet Explorer</li> <li>• Latest version</li> <li>• Browser must be Java capable and have the capacity to accept cookies and certificates</li> <li>• Microsoft Access for Ad hoc Queries</li> <li>• Windows 95</li> </ul>	<ul style="list-style-type: none"> <li>• Netscape Navigator or Microsoft Internet Explorer</li> <li>• Latest version</li> <li>• Browser must be Java capable and have the capacity to accept cookies and certificates</li> <li>• Crystal Reports, IQ or Oracle Discoverer for Ad Hoc queries</li> <li>• Windows 95, 98 or Windows NT</li> </ul>
Communications	<ul style="list-style-type: none"> <li>• 28.8 modem connection to WWW</li> </ul>	<ul style="list-style-type: none"> <li>• LAN connection w/T1 link for Internet WWW access</li> </ul>

HSMS Data Base Server		
	Minimal Requirement	Standard Configuration
Processor	200 MHz Pentium CPU	350 MHz Dual Pentium CPU
RAM	128 MB	256 MB
Hard Drive	18 GB (2 x 9GB)	45 GB (5 x 9GB) (HSMS-4.5GB Partition)
Monitor	15.9" SVGA	15.9" SVGA
Communications	10/100 Network Interface Card	10/100 Network Interface Card
Tape Back-Up	DAT Tape Back-Up Unit	DAT Tape Back-Up Unit
CD-ROM	12X	32X
Operating Environment	Windows NT Server 4.0	Windows NT Server 4.0
Data Base Management System	Oracle NT/Enterprise 7.3.3	Oracle NT/Enterprise 7.3.3
Software	Crystal Reports 6.0	Crystal Reports 6.0

HSMS Workstation		
	Minimal Requirement	Standard Configuration
Processor	133 MHz Pentium CPU	266 MHz Pentium II CPU
RAM	32 MB	64 MB
Hard Drive	1.2 GB (Free)	6.5 GB (1.2 GB Free)
Monitor	15.9" SVGA w/1 MB SGRAM Video Card	17" SVGA w/4MB SGRAM Video Card
Communications	10/100 Network Interface Card/28.8Kbps Modem	10/100 Network Interface Card/56Kbps Internal Modem
Tape Back-Up	DAT Tape Back-Up Unit	DAT Tape Back-Up Unit
CD-ROM	12X	32X
Operating Environment	Windows NT Server 4.0	Windows NT Server 4.0

Data Base Management System	Oracle NT/Enterprise Client/SQL*NET 7.3.3	Oracle NT/Enterprise Client/SQL*NET 7.3.3
Software	BarTender Crystal Reports 6.0	BarTender Crystal Reports 6.0

<b>HSMS Ancillary Support Equipment</b>	
<b>Printers</b>	
Laser Printer	Lexmark Optra S2455N Network Laserjet Printer or Equivalent
Forms Printer	Lexmark 2381 Plus Forms Printer
<b>Bar Code Equipment</b>	
Bar Code Scanner	Intermec Scanner, Hand-Held
Bar Code Printer	Intermec Model 3400 Bar Code Label Printer
Bar Code Interface Kit	Intermec FBCR Keyboard/Computer Wedge Reader
<b>Other Equipment (Procured as Required by Installation Technical Survey)</b>	
Uninterruptible Power Supply	
Surge Protectors	
12/24 Port Communications Hub	
Communications Switch	
Communications Routers	